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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
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MICHAEL CHAN NCR CORPORATION				SHAPIRO, JEFFERY A	
1700 SOUTH PATTERSON BLVD DAYTON, OH 45479-0001				ART UNIT	PAPER NUMBER
				3653	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	ON
	09/848,004	CIRA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jeffrey A. Shapiro	3653	
· The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence ad	ldress
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this c D (35 U.S.C. § 133).	ly. ommunication.
1) Responsive to communication(s) filed on 25 S	eptember 2003.		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for allowal closed in accordance with the practice under E	nce except for formal matters, pro Ex parte Quayle, 1935 C.D. 11, 4	osecution as to the 53 O.G. 213.	e merits is
Disposition of Claims			
 4) Claim(s) 1-11 and 19-30 is/are pending in the 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-11 and 19-30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by the	Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correc			
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form P	10-152.
Priority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the fir 37 CFR 1.78. a) The translation of the foreign language pro 14) Acknowledgment is made of a claim for domest reference was included in the first sentence of the service of the	is have been received. Is have been received in Applicate rity documents have been received in Applicate (PCT Rule 17.2(a)). In of the certified copies not receive ic priority under 35 U.S.C. § 1190 (st sentence of the specification of povisional application has been received priority under 35 U.S.C. §§ 1200 (st.)	ion No ed in this National ed. e) (to a provisional r in an Application ceived. and/or 121 since	al application) n Data Sheet. e a specific
Attachment(s)	_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summary 5) Notice of Informal F . 6) Other: .		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roberts et al in view of Boss and further in view of Theimer et al. Roberts et al discloses the document processing center comprising a first document processing system as follows.

As described in Claims 1 and 30;

- a plurality of document processing stations (110 and 112) for performing operations on documents and processing information relating to documents (note that printing is just such an operation);
- 2. a plurality of receptacles for storing documents between operations (note the use of stockers to store carriers/cassettes in col. 3, lines 51-60 and that cassettes can also be construed as receptacles);
- a communication interface (108, 202 or 230) for receiving information produced by the processing stations and producing messages relating to the information;

As described in Claim 3;

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6. one or more of the document processing stations includes a plurality of sorting locations (see printers 110 and 112 as well as merge stations 114 in figure 2, for example);

- 7. wherein groupings of documents are created based on the sorting location into which they are sorted (see col. 7, lines 38-53; and
- 8. wherein each grouping of documents is designated according to its sorting location;

As described in Claim 4;

 the sorting locations are pockets used by one or more of the document processing stations for receiving sorted documents (see col. 7, lines 38-43);

As described in Claim 5;

- 10. a subserver (1030 or 1024) connected to the document processing stations;
- 11. the subserver being operative to coordinate operations of the processing stations and to receive information from the processing stations (see figure 10, noting that the workstations communicate with the network, and at the very least, are a functional equivalent to Applicant's subserver);
- 12. the subserver being *operative* to prepare messages based on the information from the processing stations (see col. 21, lines 50-67 and col. 22, lines 1-27);

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13. the subserver being further *operative* to associate each message with a pocket (see col. 7, lines 38-43);

As described in Claim 7;

- 15. a communication server serving as an interface between the subserver and the communication interface (see figure 10, for example);
- 16. the communication server being *operative* to receive messages from the subserver and associate the message with the label associated with the pocket (see col. 7, lines 44-53);

As described in Claim 9;

- 18. a plurality of additional document processing systems;
- 19. each additional processing system operating in parallel with the first document processing system;
- each of the additional processing systems comprising a plurality of document processing stations and a plurality of receptacles having affixed electronic labels,
- 21. each of the document processing systems employing a subserver connected to the document processing stations,
- 22. the subservers being connected to the central communication server,

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transmission of messages from the first document processing system and each of the additional document processing systems to the electronic labels employed by the first document processing system and each of the additional document processing system, respectively;

(Note that it would have been obvious for one ordinarily skilled in the art to duplicate one system and link them—note also that it can be construed that Tau et al discloses using several distinct systems together—see figure 1, for example, illustrating several MMS systems being used together in the same system);

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As described in Claim 20;

28. the operations performed on documents include document capture (see col. 6, lines 57-67, noting that a printer, copier or scanner can all be construed as document capture devices, and that they are considered to be functional equivalents to each other—note also that "document capture" can be construed to be the function performed by a bin or tray into which a document is placed);

As described in Claim 21;

29. the operations performed on documents include MICR encoding (note that MICR (magnetic ink character recognition) is considered to be a functional equivalent of a bar code or other identifying feature);

As described in Claim 22;

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30. the operations performed on documents include document endorsement (note that this is considered to be a functional equivalent of printing, scanning, copying, etc.);

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As described in Claims 24 and 26;

32. a plurality of sorting locations, wherein groupings of documents are created based on the sorting location into which they are sorted and wherein each grouping of documents is designated according to its sorting location (see col. 7, lines 1-32);

As described in Claim 25;

33. the sorting locations are pockets (note that trays are construed as pockets—see col. 7, lines 41-43);

Roberts et al does not expressly disclose, but Boss expressly discloses the following.

*As described in Claim 1;

*4. a plurality of electronic labels (see col. 3, lines 31-65) receiving messages (wirelessly) from the communication interface, each of the labels being affixed to one of the receptacles, each of the labels being operative to display messages addressed to the label;

*As described in Claim 2;

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5. each of the labels is associated with the documents placed in the receptacle to which the label is affixed (see above discussion (see col. 3, lines 31-65);

*As described in Claim 6;

- 14. each of the labels is associated with one of the pockets (see col. 3, lines 31-65); and
- 15. wherein documents from each pocket are placed in a receptacle bearing a label corresponding to the pocket (see lines 31-65);
- *As described in Claims 8 and 27;
 - 17. each of the electronic labels has a unique address (see lines 31-65);

*As described in Claim 23;

31. each of the labels is associated with the documents placed in the receptacle to which the label is affixed (see lines 31-65);

*As described in Claim 28;

24. each of the electronic labels is a low cost (wireless) receiver operative to receive radio frequency signals representing a message and to display the message using a visual display (see Kosarew, noting the visual information display (10a) on the smart tag);

*As described in Claims 11 and 29;

25. each of the electronic labels is operative to receive an operator input,

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26. wherein the communication interface is operative to send status requests to the electronic labels; and

27. wherein the electronic labels are operative to use modulated backscatter to send a signal to the communication interface indicating the presence of operator input (see col. 3, lines 60-65, noting that modulated backscatter is considered to be a functional equivalent of direct wire, printed circuit board, or semiconductor electric conduits);

(Note that RF tags necessarily receive operator input and send status request back to a server and that they necessarily operate using modulated backscatter—see Drabeck et al, Mariani, Swartz et al and Carrender et al, for example. Note also that Theimer et al describes the use of "intelligent tags" such as radio or infrared, as described in the abstract and col. 5, lines 8-11 as well as the fact that such intelligent tags are useful in decentralized systems—see col. 5, lines 39-46;)

Roberts et al does not expressly disclose, but Baker expressly discloses the following.

Use of an RF tag, which is considered to be wireless. See col. 2, lines 28-39, for example, noting that RF is described as being the functional equivalent of smart devices, magnetic strips, bar codes, etc.

Both Roberts et al, Boss and Baker et al are analogous art because they both concern routing and sorting of items.

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At the time of the invention, it would have been obvious to a person of ordinary skill to use the finisher system of Boss in the document processor system of Roberts et al and to use an RF based identification tag as would be expedient to one ordinarily skilled in the art to use, for example, where a decentralized system is required.

The suggestion/reason would be to provide multiple bin sorting capabilities and transfer capabilities between document processing operations. See Roberts et al col. 7, lines 44-54, stating that the merging apparatus is required and Boss at col. 1, lines 65-67 and col. 2, lines 1-4, noting that the apparatus of Boss is intended to be used for multiple bin sorting. Baker describes using an RF based electronic tag.

Therefore, it would have been obvious to combine Baker and Tau et al to obtain the invention as described in Claims 1-11.

Response to Amendment

3. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn. The primary reason for withdrawal of the final is that new art had been applied to Original Claims 1-11, filed on 5/28/03, which were not amended. For clarity, it is noted that New Claims 19-30 were also filed on 5/28/03.

Response to Arguments

4. Applicant's arguments with respect to Claims 1-11 and 19-30 have been considered but are moot in view of the new ground(s) of rejection. See above discussion.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey A. Shapiro whose telephone number is (703)308-3423. The examiner can normally be reached on Monday-Friday, 9:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald P. Walsh can be reached on (703)306-4173. The fax phone number for the organization where this application or proceeding is assigned is (703)306-4195.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-1113.

Jeffrey A. Shapiro Examiner Art Unit 3653

December 23, 2003

Supervisory patent examiner Technology center 3600